Detail - CONCRETCOOL-cooling pipe coil in concrete ceiling

- connecting bend fixation
- connecting bend 90°
- wire pin and plain washer
- closing plug
- dust cover plug

The dust cover plug has to be removed by the installation company before connecting to ductwork!

Detail - connecting CONCRETCOOL-cooling pipe coil

- connection socket (Ø74/Ø78) at cooling pipe coil
  (optional)

SUP

scale 1:5
Installation of closing plug:

1. Before installation the cooling pipe coil the vertical planking has to be drilled through to be able to hold an bolt M8.
2. The screw and of the plug is placed through the drill hole and loosely screwed to the planking using the plain washer and nut M8.
3. Place the dust cover plug into the bare pipe, then pull the pipe over the closing plug flush to the planking.
4. First, place the u-clamp plate and afterwards the sealing sleeve on the continuing ribbed pipe.
   Second, connect the ribbed pipe with the bare pipe.
5. The sealing sleeve has to be tightened. The u-clamp plate has to be braced on both sides with cable binders to the lower reinforcement.
   Now tighten the nut of the closing plug. This causes the closing plug to expand therefore avoiding removal of the bare pipe.

Removing of closing plug:

1. Before start dismounting the planking, release the nut.
2. Dismount planking.
3. Remove the closing plug from the pipe. The dust cover plug has to be removed by the installation company before connecting the ductwork.
Detail - CONCRETCOOL-cooling pipe coil in concrete ceiling

- Cable binder
- Ribbed pipe Ø80
- Sealing sleeve
- Connecting bend 90°
- Dust cover plug
- Support plate
- Spacer
- Concrete ceiling

Supplementary: SUP (optional)

The dust cover plug has to be removed by the installation company before connecting to ductwork!

Detail - connecting CONCRETCOOL-cooling pipe coil

- Connection socket (Ø74/Ø78) at cooling pipe coil (optional)

Scale 1:5
Detail - CONCRETCOOL-cooling pipe coil and plenum box in concrete ceiling

The dust cover plug has to be removed by the installation company before connecting to ductwork!

Detail - connecting CONCRETCOOL-cooling pipe coil and front plate GLS 230

The dust cover plug has to be removed by the installation company before mounting the front plate!
Detail - CONCRETCOOL-cooling pipe coil and plenum box in concrete ceiling

- Punch tape fixated on filigree ceiling
- Spacer
- Sealing sleeve
- Ribbed pipe Ø80
- Shrink tape
- 2 self-tapping screws
- Plenum box

Detail - connecting CONCRETCOOL-cooling pipe coil and front plate GLS 230

- Connection socket (Ø74/Ø78) at cooling pipe coil (optional)
- Front plate GLS 230
- Central fastening with countersunk screw
- Foam tape

The dust cover plug has to be removed by the installation company before connecting to ductwork!
Detail - CONCRETCOOL-cooling pipe coil and plenum box in concrete ceiling

The dust cover plug has to be removed by the installation company before connecting to ductwork!

Detail - connecting CONCRETCOOL-cooling pipe coil and front plate GLS 360 ZA

Remove the dust cover plug before mounting the front plate!
Detail - CONCRETCOOL-cooling pipe coil in concrete ceiling

- Cable binder
- Ribbed pipe Ø80
- Sealing sleeve
- Lower reinforcement
- Spacer
- Concrete ceiling
- Planking
- Connecting bend fixation
- Connecting bend 90°
- Wire pin and plain washer
- Closing plug
- Dust cover plug

The dust cover plug has to be removed by the installation company before connecting to ductwork!

Detail - connecting CONCRETCOOL-cooling pipe coil

- Connecting bend (Ø74/Ø78) with rubber lip seal for connection at the cooling pipe coil (optional)

Scale 1:5
Detail - plenum box INDUL in concrete ceiling

- Lower reinforcement
- Planking
- Dust protection (filter) of styrofoam

Detail - plenum box + discharge profile INDUL

- Lower reinforcement
- Discharge profile V24 NB
- Fixation with screws M5
- Remove the dust protection of styrofoam before mounting the discharge profile!

View "X"

Scale 1:5
Detail - plenum box INDUL in concrete ceiling

- plenum box
- INDUL
- concrete ceiling

Detail - plenum box + discharge profile INDUL

- discharge profile V24 NB
- fixation with screws M5

Remove the dust protection of styrofoam before mounting the discharge profile!

view "X"
Detail - plenum box INDUL in concrete ceiling

- lower reinforcement
- concrete ceiling
- connecting pipe
- pluming
- dust protection (filter) of styrofoam

Detail - plenum box + discharge profile INDUL

- lower reinforcement
- discharge profile V45 NB
- fixation with screws M5
- Remove the dust protection of styrofoam before mounting the discharge profile!

view "X"
Detail - plenum box INDUL in concrete ceiling

Detail - plenum box + discharge profile INDUL

Remove the dust protection of styrofoam before mounting the discharge profile! Fixation with screws M5.

scale 1:5
Detail - CONCRETCOOL-cooling pipe coil and plenum box in concrete ceiling

- ribbed pipe Ø80
- sealing sleeve
- cable binder
- lower reinforcement
- dust protection (filter) of styrofoam
- concrete ceiling

The dust cover plug has to be removed by the installation company before connecting to ductwork!

Detail - connecting CONCRETCOOL-cooling pipe coil and plenum box

- connection socket (Ø74/Ø78) at cooling pipe coil (optional)
- discharge profile V24 NB
- fixation with screw M5

Remove the dust protection of styrofoam before mounting the discharge profile!

view "X"
Detail - CONCRETCOOL-cooling pipe coil and plenum box in concrete ceiling

1/2 DD
DD = slab thickness
Ø80
planking
concrete ceiling
SUP
180 / 130
75
105
planking
concrete ceiling
filigree ceiling panel
 dd 180/130
recess
coordinated as needed to ceiling perspective
(facing concrete, plaster, colour...).
dust protection (filter)
of styrofoam

Detail - connecting CONCRETCOOL-cooling pipe coil and plenum box

connection socket
(Ø74/Ø78)
at cooling pipe coil
(optional)
dischARGE PROFILE
V24 NB
fixation with screw M5
Remove the dust protection of styrofoam before mounting the discharge profile!

The dust cover plug has to be removed by the installation company before connecting to ductwork!

scale 1:5
Connecting CONCRETCOOL-cooling pipe coil and plenum box in concrete ceiling

- 1/2 DD (slab thickness)
- ø80 ribbed pipe
- Concretcool-cooling pipe coil and plenum box
- Detail - connecting CONCRETCOOL-cooling pipe coil and plenum box

- SUP (optional)
- Connection socket (ø74/ø78)
- Discharge profile V45 NB
- Fixation with screw M5

The dust cover plug has to be removed by the installation company before connecting to ductwork!

- Dust protection (filter) of styrofoam
- Dust cover plug
- Closing plug
- Wire pin and plain washer
- Connecting bend fixation
- Connecting bend 90°
- Planking
- Lower reinforcement
- Concrete ceiling
- View "X"
Detail - CONRETCOOL-cooling pipe coil and plenum box in concrete ceiling

- DD = slab thickness
- Ø80
- concrete ceiling
- SUP
- DD 180/130
- 180 / 130
- 75
- 105
- recess
- filigree ceiling panel
- planking planking
- ribbed pipe Ø80
- 2 self-tapping screws
- sealing sleeve
- punch tape fixated on filigree ceiling
- spacer
- connecting bend fixation
- connecting bend 90°
- wire pin and plain washer
- dust cover plug
- dust protection (filter) of styrofoam

The dust cover plug has to be removed by the installation company before connecting to ductwork!

Detail - connecting CONRETCOOL-cooling pipe coil and plenum box

- connection socket (Ø74/Ø78)
- at cooling pipe coil
- (optional)
- discharge profile V45 NB
- fixation with screw M5
- view "X"

Remove the dust protection of styrofoam before mounting the discharge profile!

CONRETCOOL
Detail XV - connection INDUL V45 NB in filigree ceiling

CAD-Nr.: 32514811315.dwg
- technical modifications reserved -

scale 1:5
1.) CONCRETCOOL-cooling pipe coil with plenum box for linear diffuser in concrete ceiling

scale 1:5

- dust protection
- nailed
- filigree ceiling panel
- concrete ceiling
- ribbed pipe Ø80
- 2 self-tapping screws
- dust cover plug
- The dust cover plug has to be removed by the installation company before connecting to ductwork!

2.) Plenum box embedded in concrete

scale 1:2

- planking
- foam rubber
- Remove the dust protection of styrofoam before mounting the discharge profile!

3.) Fully mounted

scale 1:2

- discharge profile with frame
- fixation with screw M5
- Kiefer Klimatechnik GmbH
- Heilbronner Strasse 380 - 388
- 70469 Stuttgart
- Tel. (0711) 8109-0
- www.kieferklima.de

CONCRETCOOL
Detail XVI - installation overview INDUL V24 NB in concrete ceiling

CAD-Nr.: 32514811316.dwg
- technical modifications reserved -

proved: Wnuk / 31.03.20
drawn: Pankratz / 31.03.20
Pipes

ribbed pipe AlMgSi 0,5 (max. 5m)
bare pipe AlMgSi 0,5 (max. 6m)

Bends

connecting bend 90°
connection bend 90°
connection bend 45°
u-bend
180° bend
z-bend (on inquiry)

Note: deviations of the standard are order related
scale 1:12.5

CONCRETCOOL
Legend standard pipe forms Ø 60mm
Pipes

ribbed pipe AlMgSi 0,5 (max. 5m)

bare pipe AlMgSi 0,5 (max. 6m)

Bends

connecting bend 90°

connection bend 90°

connection bend 45°

u-bend

180° bend

z-bend (on inquiry)

Note: deviations of the standard are order related
Cooling pipe in combination with ceiling air diffuser GLS 230
Connection in ceiling paneling
scale 1:100
Detail Z, scale 1:20

Cooling pipe in combination with ceiling air diffuser GLS 230
Connection in ceiling paneling
Extract air via transfer grille INDUSILENT
scale 1:100

Section A-A, scale 1:100
Cooling pipe in combination with ceiling air diffuser GLS 360 ZA (supply- and extract air outlet)

Connection in ceiling paneling

scale 1:100

Section A-A, scale 1:100
Cooling pipe in combination with wall air passage INDULSNAP
Combination supply- and extract air
Connection in ceiling paneling
scale 1:100

Section A-A, scale 1:100

Detail Z, scale 1:20

INDULSNAP
connecting bend see detail I (drawing no. 32514811301)
**Installation situation conferenceroom:**
cooling pipe in combination with wall air passage INDULSNAP
scale 1:100

**Section A-A, scale 1:100**
Installation situation bedroom in a hospital
scale 1:100

Section A-A, scale 1:100

Detail Z, scale 1:20

INDULSNAP W/D
connecting bend see detail I (drawing no. 32514811301)
Cooling pipe in combination with wall air passage INDUWALL
scale 1:100

Section A-A, scale 1:100
Cooling pipe in combination with wall air passage INDUWALL (fed from floor)
scale 1:100

Section A-A, scale 1:100
Cooling pipe in combination with floor air passage INDUWALL
scale 1:100

Detail Z, scale 1:20

Section A-A, scale 1:100

Attention:
INDUWALL-outlet is not resistant to compression (can not be walked on).

CONCRETCOOL
Layout example D3: INDUWALL in double floor

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Cooling pipe in combination with displacement air outlet in ceiling paneling

Scale 1:100

Section A-A, scale 1:100
Cooling pipe in combination with linear diffuser INDUL in ceiling paneling

Section A-A, scale 1:100
 Cooling pipe without diffuser
scale 1:50

Section A-A, scale 1:50

vertical connection see
detail II (drawing no. 32514811302)

INDUSILENT SR
connecting bend
see detail I
(drawing no. 32514811301)
Detail Z, scale 1:20

Section X, scale 1:5

Cooling pipe in combination with design chilled ceiling panel

INeUeOOL Technics I

Section A-A, scale 1:100
**Detail - CONCRETCOOL-cooling pipe coil and plenum box in concrete ceiling**

scale 1:8

- punch tape fixated on filigree ceiling
- spacer
- sealing sleeve
- Ø80 ribbed pipe
- 2 self-tapping screw fixation
- filigree ceiling panel
- connecting bend fixation
- connecting bend 90°
- wire pin and plain washer
- closing plug
- dust cover plug
- dust protection (filter) of styrofoam
- The dust cover plug has to be removed by the installation company before connecting to ductwork!

**Installation situation bedroom in hospital**

scale 1:100

**Section A-A, scale 1:100**

**Detail, scale 1:2**

- discharge profile fixation with screw M5
- Remove the dust protection of styrofoam before mounting the discharge profile!

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**CONCRETCOOL**

Layout example I: INDUL embedded in concrete

CAD-Nr.: 32514811364.dwg

- technical modifications reserved -

proved: Wnuk / 31.03.20

drawn: Pankratz / 31.03.20

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